

AGILE DATA WAREHOUSE DESIGN & BI TOOLS

“Accelerating Business Intelligence through Modern, Iterative Data Architecture”

Schedule

| Date | Venue | Fees (Face-to-Face) |
|------------------|------------|-----------------------|
| 01 - 03 Jul 2026 | Dubai, UAE | USD 2495 per delegate |

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Traditional data warehousing approaches often struggle to keep up with rapidly evolving business needs. Agile Data Warehouse Design offers a modern methodology that enables faster development, better alignment with user requirements, and seamless integration with BI tools for insightful decision-making.

This 3-day course introduces participants to agile design principles, dimensional modeling techniques, and the practical application of business intelligence (BI) tools to create responsive and scalable data environments. Real-world exercises and tool demonstrations ensure attendees gain hands-on experience in accelerating analytics through agile data architecture.

Objectives

By the end of this course, participants will be able to:

- Understand the fundamentals of agile data warehousing and BI integration
- Design data models that align with business needs and reporting goals
- Apply iterative development cycles to improve data delivery
- Utilize popular BI tools to create interactive dashboards and reports
- Integrate agile practices into data warehouse and analytics projects

Why Attend

- Learn how to build flexible and scalable data warehouse architectures
- Improve time-to-insight by adopting agile delivery for analytics
- Bridge the gap between business users and data engineering teams
- Gain practical knowledge of BI tools like Power BI or Tableau
- Ensure your data infrastructure supports ongoing digital transformation

Target Audience

This program is designed for:

- Data Analysts and BI Developers
- Data Architects and Warehouse Designers
- IT Project Managers and Product Owners
- Business Intelligence and Reporting Specialists
- Anyone involved in enterprise data or analytics initiatives

Individual Benefits

Key competencies that will be developed include:

- Agile development techniques for data warehouse projects
- Dimensional modeling and business-aligned data design
- Hands-on use of BI tools for visual analytics
- Effective communication with cross-functional teams
- Quick adaptation to evolving data requirements

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Faster deployment of data warehouse components and dashboards
- Better alignment between business intelligence and operational goals
- Reduced time to value in data initiatives
- Improved collaboration between IT and business stakeholders
- More responsive and iterative reporting cycles

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - Agile methodology, data architecture trends
- Case Studies - Iterative development cycles, enterprise adoption
- Workshops - Dimensional modeling, BI dashboard building
- Peer Exchange - Discussion on tools, templates, and team structures
- Tools - BI tool demos, agile boards, data model templates

Course Outline

Training Hours: 7:30 AM - 3:30 PM Daily Format: 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 - 02:00

Day 1: Foundations of Agile Data Warehousing

- Module 1: Traditional vs Agile Data Warehouse Methodologies (07:30 - 09:30) • Waterfall pitfalls, benefits of agility in data environments
- Module 2: Agile Frameworks in Data Projects (09:45 - 11:15) • Sprints, user stories, backlog management
- Module 3: Core Data Modeling Concepts (11:30 - 01:00) • Star schema, snowflake, slowly changing dimensions
- Module 4: Workshop - Map Business Needs to Data Models (02:00 - 03:30) • Create initial dimensional model draft

Day 2: Dimensional Modeling and Iterative Development

- Module 5: Fact and Dimension Table Design (07:30 - 09:30) • Grain, keys, aggregations, hierarchies
- Module 6: Agile Sprint Planning for Data Warehousing (09:45 - 11:15) • Increments, releases, acceptance criteria
- Module 7: Integrating Data from Multiple Sources (11:30 - 01:00) • ETL, data staging, metadata management
- Module 8: Workshop - Build a Small-Scale Agile Warehouse Plan (02:00 - 03:30) • Sprint backlog creation

Day 3: BI Tools and Delivery of Insight

- Module 9: Introduction to BI Tools (Power BI/Tableau/Qlik) (07:30 - 09:30) • Tool overview, data connectors, basic visuals
- Module 10: Designing Interactive Dashboards and Reports (09:45 - 11:15) • KPIs, filters, drill-down functionality
- Module 11: Managing Change and Continuous Delivery (11:30 - 01:00) • Stakeholder engagement, version control
- Module 12: Final Workshop - Create and Present a Dashboard (02:00 - 03:30) • Dashboard building and group feedback

Certification

Participants will receive a Certificate of Completion in Agile Data Warehouse Design & BI Tools, validating their capability to structure data systems and reporting tools that align with business needs and deliver timely insights through agile project delivery.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
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In-House / Customized Training

Interested in running this course for your team?

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